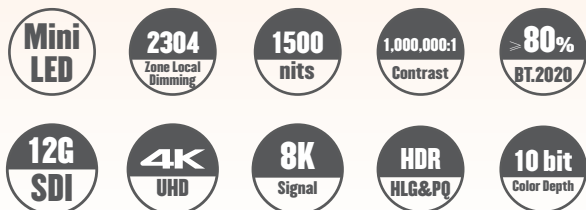


KXM-3220M

32 INCH 4K/8K HDR

Mini-LED MASTERING MONITOR



INTRODUCTION

The KXM-3220M is a 31.5-inch 4K/8K HDR mastering monitor featuring Mini-LED full-array local dimming technology with 2304 zones. It delivers 3840×2160 4K resolution, 1500nits brightness, 1,000,000:1 contrast, and ≥80% BT.2020 color gamut with HDR HLG/PQ support. Equipped with 4×12G-SDI input/loop-out, it supports 4K&8K signal processing and 4K HDR to HD SDR down-conversion, making it ideal for HDR mastering production, UHD/HD live production, filming, and post-production workflows.

HIGHLIGHTS

- 178°(H/V) full viewing angle IPS LCD panel with 3840×2160 4K resolution
- Mini-LED backlight with 2304-zone local dimming
- 1500nits brightness, 1,000,000:1 contrast, ≥80% BT.2020 coverage
- 12-bit video processing with zero-latency display
- 4×12G-SDI input/loop-out (8K quad-link, 4K single/quad-link)
- 4×12G-SDI quad-link (SQD/2SI) up to 8K60p
- 1×SFP+ fiber interface for SDI conversion input
- 1×HDMI 2.0 input/loop-out with SDI/SFP+ conversion output
- 3D LUT calibration compatible with ColourSpace/Calman
- Color spaces: Rec.709/EBU/DCI-P3/DCI-P3 D65/Rec.2020
- Gamma options: 2.0/2.2/2.4/2.6
- HDR support: HLG (1.03/1.11/1.16/1.20/1.27/1.33), ST2084 PQ/(softroll)
- VPID/Payload ID auto-recognition for color space/EOTF matching
- Multiple camera color space/EOTF conversions to standard color space
- USB/Ethernet for 3D LUT loading and firmware updates
- Quad view mode for simultaneous SDI/HDMI/SFP+signals
- Independent brightness/gamuts/EOTF settings per window in quad-view mode
- Instant single-view switch from any window in quad-view mode
- 4K HDR to 2K SDR down-conversion with custom 3D LUT output
- HDR area display, HDR/SDR ratio graph and pixel measurement
- Waveform, Vector, Histogram, CIE Chromaticity Diagram, CIE Color Volume
- Mirror, Rotation, Zoom, Freeze, Full Scan, Overscan, H/V delay
- False Color, Zebra, Focus Assist, Blue/Mono Only
- Darkness Check, Highlight Check
- Aspect ratio, Center Marker, Safe Area, Markers with BOX control
- Audio Level Meter, Audio Phase, 5.1/7.1 Surround Phase
- Each SDI support 16ch embedded audio meters & 2-channel outputs
- Supports 4.1-channel audio
- VITC1/2, LTC timecode; static/dynamic UMD/IMD; tri-color Tally
- 5 scene presets, 5 customizable shortcut keys
- GPI remote control for Tally/assist functions/scene preset
- Aluminum alloy casing, dual power inputs with speakers/headphone jack

SPECIFICATION

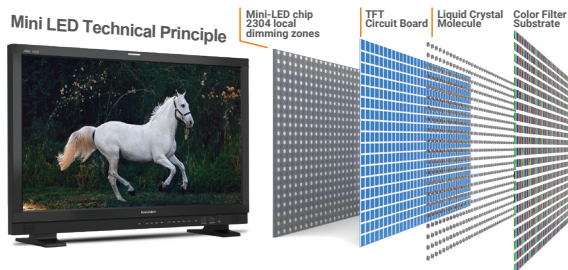
Panel	
Model No.	KXM-3220M
Backlight	Full Array 2304 Local Dimming Zones Backlight
Size	31.5"
Resolution	3840×2160
Aspect Ratio	16:9
Viewing Angle	178°(H) / 178°(V)
Brightness	1500cd/m ²
Contrast Ratio	1,000,000:1
Color Depth	10bit
Input	
4×BNC	12G/6G/3G/HD/SD-SDI (SDI1/SDI2/SDI3/SDI4)
1×HDMI	HDMI 2.0
1×SFP+	12G/6G/3G/HD/SD-SDI SFP+
Output	
4×BNC	12G/6G/3G/HD/SD-SDI (SDI1/SDI2/SDI3/SDI4)
1×HDMI	HDMI 2.0
Remote Interface	
1×RJ45	10/100M Ethernet Input Interface
1×RJ45	GPI Input Interface
2×RJ45	RS422 Input and Loop Out Interface
Audio In & Out	
Audio In	16-Channels SDI & 2-Channel outputs
Audio Out	3.5mm Headset Jack, 2×3.0W Speakers Support 4.1-Channel Audio
Audio Meter Display	Vertical/horizontal, transparent/opaque display
General	
Input Voltage	AC 100-240V 50/60Hz
Power	≤200W
Installation	VESA MIS-D (100×100mm)/(200×200mm)
Net Weight	≈12.1kg
Accessory	Power Cord /Desktop Stand

*Specifications may be changed without prior notice.

FEATURES

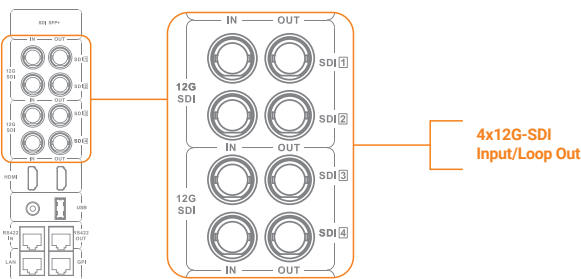
▪ 4K Panel with Mini-LED Full Array Local Dimming

It features a 31.5-inch 10-bit IPS LCD panel with 178° (H)/178° (V) viewing angle and 3840×2160 4K resolution and equipped with Mini-LED full array backlight technology featuring 2304 independent dimming zones. Advanced algorithm enables precise brightness adjustment for each zone based on content, delivering superior backlight uniformity.



▪ 4x12G-SDI Input/Loop Out, 4K/UHD Monitoring

Equipped with 4x12G-SDI, 1xHDMI, and 1xSFP+ fiber optic interfaces. It supports 4x3G-SDI quad-link or 1x12G-SDI single-link 4K input. Quad-link input supports SQD and 2SI formats.



▪ Multiple HDR/Color Spaces Available

Supports high dynamic range (HDR) monitoring, providing standard HDR EOTF (Electro-Optical Transfer Function) with built-in various standard color spaces and Gamma. It also supports VPID reading display and Payload ID recognition, automatically matching color space and EOTF.

- Color Spaces: Rec.709/EBU/DCI-P3/DCI-P3 D65/Rec.2020
- HDR EOTF: HLG (1.03/1.11/1.16/1.20/1.27/1.33), ST2084 PQ/(softroll)
- Gamma: 2.0/2.2/2.4/2.6

▪ Camera Gammas to Standard Gamuts Conversion

Built-in various mainstream camera gamma curves enable the conversion of camera color space and EOTF to standard color space and EOTF.



Camera Log:

- Arri Wide Gamut 3/LogC3
- Arri Wide Gamut 4/LogC4
- Canon Cinema Gamut/Canon Log2/3
- DJI D-Gamut/D-Log
- Panasonic V-Gamut/V-Log
- Sony S-Gamut/S-Log2
- Sony S-Gamut3/S-Gamut3.Cine/S-Log3

▪ 3D LUT Color Calibration

Tetrahedral 3D LUT interpolation color calibration technology. Compatible with ColourSpace and Calman calibration software, Konvision monitors apply K10-A/CR100 probe (professional level) to achieve a precise color. Monitor's also workable with universal colorimeters including CA210, CA310, CS200, CR100, CR250, X-Rite i1 Display.

▪ Customizable 3D LUT Import & Output

Users can load and save 8 custom 3D LUTs via USB port/network port. Custom LUTs can also be set to output with the video display, effectively simplifying the color grading process for DIT and post-production work.

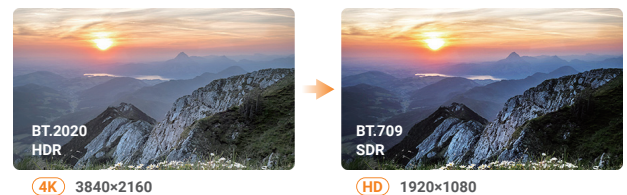
▪ Quad-View: Mixed Inputs & Frame Rates

The Quad view mode supports the simultaneous input of four different signal sources, allowing for mixed resolution and frame rate signals to be displayed together via SDI/HDMI/SFP+. Each split window can independently set Color Space and EOTF, as well as display HDR waveforms separately. This enables centralized monitoring of the entire system in a limited space, with the ability to quickly switch to a single view from any window.



▪ 4K HDR-HD SDR Down-Conversion

Single-link SDI can realize 4K-HD down-conversion and HDR-SDR conversion. Support NBCU LUTs, CMG LUTs production standards, to meet the 4K HDR and HD SDR high-quality production needs.



▪ Professional Image Analysis Tools

